

A STEREO IMAGING SYSTEM AND METHOD FOR
USE IN TELEROBOTIC SYSTEMS

ABSTRACT OF THE DISCLOSURE

This invention relates to a stereo imaging system for use in telerobotic systems. A method of imaging a target site in a stereo imaging system is provided. The method typically includes capturing a right and a left optical image of the target site and
5 transforming the right and the left optical images preferably into digital information. The method further includes converting the digital information into opposed images of the target site displayed on a stereo display of the stereo imaging system, one of the opposed images being associated with the right optical image and the other of the opposed images being associated with the left optical image. The method further includes regulating the
10 digital information to cause the positions of the target site displayed on the opposed images to change relative to each other. The invention further provides for a method of aligning the opposed images, to a method of adjusting the stereo working distance of an image capture device, such as an endoscope and to a stereo imaging system.

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